

A Panel Discussion
IGARSS 2003 Toulouse, France
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International and Interagency Cooperative Development A Perspective on International Cooperation

A panel discussion on the development of architectures for cooperative Earth observation systems and integrated modeling capabilities.

Participants

Conveners

G. Paules NASA

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Members

Prof. Jose Achache Director of Earth Observation Programs, ESA

Mr. John Cunningham Director, NPOESS Integrated Program Office

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The Forecasting Challenge

- Earth System Model: The potential for predicting future variability and change in the Earth environment using integrated Earth System Modeling
- Ocean & Atmosphere: Predicting monthly to seasonal climate variability and the oceanic and atmospheric causes and effects
- Biosphere: A decadal vision: Predicting biosphere-climate interactions and the availability of fresh water under the influence of climate change including the effects induced by humans
- Solid Earth: Predicting solid Earth interactions with climate and the effects on habitability of Earth
- Climate Change: Bringing awareness to an international scale: potential implications of our coming understanding of the causes and effects of climate variability and change

Earth Science Modeling Framework

A coupled global perspective of the earth as a system that serves both 'curiosity-driven' science and relevant near term applications

...by...

- Employing 'cross-theme' observing strategies
 - that provide robust and timely decision support information
 - using direct and integrated observations—a 'sensorweb'
- Allowing data ingestion and assimilation from greatly distributed sources
 - providing seamless acquisition and long term data and information storage
 - possibly 'federated depositories'

...that...

- Operates through a heterogeneous versus a centralized information systems architecture
 - that is open and evolvable

Earth Observation Summit

- Hosted by U. S. Government in Washington, D.C. on July 31, 2003
- Senior international government and non-government leaders in climate science, technology, and environment
- To obtain international support for a system of integrate space-borne, airborne, and in situ observations, to help understand and address global, environmental and economic concerns

(www.earthobservationssummit.gov)